

SECTION 09 6919

STRINGERLESS ACCESS FLOORING

LANL MASTER SPECIFICATION

When editing to suit project, author shall add job-specific requirements and delete only those portions that in no way apply to the activity (e.g., a component that does not apply). To seek a variance from applicable requirements, contact the ESM Architectural POC.

When assembling a specification package, include applicable specifications from all Divisions, especially Division 1, General Requirements.

Delete information within "stars" during editing.

Specification developed for ML-3 projects. For ML-1 / ML-2, additional requirements and QA reviews are required.

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Floor support system of stringerless framing type
- B. Removable floor panels

1.2 PERFORMANCE REQUIREMENTS

- A. Provide pedestals to support a maximum axial load of 5,000 pounds without causing permanent deformation. Ultimate strength shall be not less than twice the design load.
- B. Provide floor panels meeting the following requirements:
 - 1. Live load capacity of 250 psf.
 - 2. Maximum deflection of 0.080 inch with a concentrated load of 1,000 pounds on 1 square inch at any location.
 - 3. Permanent deformation of 0.01 inch maximum at design load.
 - 4. Ultimate strength of not less than twice the design load.
 - 5. Flame spread of 5 or less in accordance with ASTM E84.
- C. Design system for lateral stability in all directions, with or without panels in place.
- D. Maximum surface electrical resistance of one ohm per panel.

1.3 SUBMITTALS

- A. Submit the following in accordance with the requirements of Section 01 3300.
 - 1. Catalog data for grid system, panels and accessories.
 - 2. Manufacturer's certification that products meet or exceed specified design strength and electrical resistance requirements.
 - 3. Manufacturer's installation instructions.
 - 4. Color chart or samples of vinyl tile for color selection.
 - 5. Shop drawings indicating panel layout, interruptions to grid, special sized panels, panels requiring drilling or cutout for services, appurtenances or interruptions, and edge details.
 - 6. Maintenance data including recommended cleaning methods, cleaning materials, stain removal methods, and polishes and waxes.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. C-Tec, Inc., Tec-Cor products
- B. Donn, AS-100 products
- C. Cate Access Floors, Series 600 products

2.2 SUPPORT COMPONENTS

- A. Provide steel pedestals with flat bottomed base plates, threaded supporting rods, vibration-proof lock nuts to permit 1 1/2 inch adjustment, and manufacturer's standard finish.
- B. Pedestal to achieve finish floor elevation [12] inch nominal height above subfloor.

2.3 PANEL COMPONENTS

- A. Provide floor panels with die formed steel top and bottom plates and reinforcing stiffeners, and plywood cores laminated with galvanized sheet steel structurally bonded with thermosetting adhesive to both faces.
- B. Provide 24 by 24 inch floor panels.
- C. Provide vinyl tile floor finish of static conductive type, 1/8 inch thick.
- D. Use vinyl tile adhesive of moisture resistant, electrically conductive type recommended by vinyl tile manufacturer.

2.4 ACCESSORIES

- A. Use extruded polyvinyl chloride or neoprene edging, 3/8 inch thick, self-extinguishing cable cutout protection.
- B. Provide a panel lifting device of manufacturer's standard type.
- C. Use extruded plastic edge trim.

2.5 FABRICATION TOLERANCES

- A. Floor panel flatness - plus or minus 0.02 inch in any direction.
- B. Floor panel length or width from specified size - plus or minus 0.02 inch.
- C. Floor panel squareness - plus or minus 0.03 inch difference between opposite diagonal dimensions.

PART 3 EXECUTION

3.1 INSPECTION

- A. Verify that surfaces and openings are ready to receive Work of this Section.
- B. Verify that field measurements are as shown on shop drawings.
- C. Verify that required sub-floor utilities are available, in proper locations, and ready to receive Work of this Section.

3.2 PREPARATION

- A. Clean subfloor surfaces.
- B. Protect materials surrounding the Work of this Section from damage.

3.3 INSTALLATION

- A. Install assembly in accordance with approved shop drawings and manufacturer's installation instructions.
- B. Secure pedestal baseplates to subfloor with adhesive.
- C. Install additional pedestals where grid pattern is interrupted by room appurtenances and at cutouts.
- D. Install floor panels solidly on pedestals.
- E. Cut holes in floor panels for installation of University's equipment as directed. Install cable cutout protection.
- F. Seal field cuts of floor panels with edge trim.

3.4 ADJUSTING

- A. Adjust floor pedestals to achieve a level floor and to assure adjacent floor panel surfaces are flush.

3.5 CLEANING

- A. Clean Work under provisions of Section 01 7700.

3.6 PROTECTION OF FINISHED WORK

- A. Do not permit traffic over unprotected floor finish.

END OF SECTION

Do not delete the following reference information:

FOR LANL USE ONLY

This project specification is based on LANL Master Specification 09 6919 Rev. 0, dated January 6, 2006.